

2020-2021 Eğitim-Öğretim Yılı Güz Yarıyılı'ndan itibaren Endüstri Mühendisliği Lisans Programı'nda ÇAP yapacak Elektrik - Elektronik Mühendisliği Bölümü Lisans Programı'ndaki öğrencilere uygulanacaktır.

ÖĞRENCİNİN OKUDUĞU LİSANS PROGRAMI				ÇİFT ANADAL YAPACAĞI PROGRAM				EŞDEĞER DERSLER				ÇİFT ANADALINDA ALACAĞI DERSLER			
ELEKTRİK-ELEKTRONİK BÖLÜMÜ LİSANS PROGRAMI DERS PLANI				ENDÜSTRİ MÜHENDİSLİĞİ BÖLÜMÜ LİSANS PROGRAMI DERS PLANI				ELEKTRİK-ELEKTRONİK BÖLÜMÜ LİSANS PROGRAMI				ENDÜSTRİ MÜHENDİSLİĞİ LİSANS PROGRAMI ALACAĞI DERSLER			
1. YARIYIL				1. YARIYIL				1. YARIYIL				1. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE1021	PROGRAMMING FOR ENGINEERS	6		IE1001	Introduction to Computing	6						IE1001	Introduction to Computing	6	
EE1011	ACADEMIC ENGLISH FOR ELECTRICAL AND ELECTRONICS ENGINEERING I	3		IE1601	Engineering Graphics	5						IE1601	Engineering Graphics	5	
MCB1001	CALCULUS I	7		IE1801	Engineering Orientation	2		EE6022 / IE1801	Engineering Ethics & Law	3 / 2					
MCB1004	LINEAR ALGEBRA	6		MCB1001	Calculus I	7		MCB1001 / MCB1001	Calculus I / Calculus I	7 / 7					
PHY1001	PHYSICS I	7		PHY1001	Physics I	7		PHY1001 / PHY1001	Physics I / Physics I	7 / 7					
ATA1001	PRINCIPLES OF ATATÜRK & HISTORY OF REFORMS I	2		ATA1001	Principles of Atatürk and History of Revolution I	2		ATA1001 / ATA1001	Principles of Atatürk and History of Revolution I / Principles of Atatürk and History of Revolution I	2 / 2					
TR1001	TURKISH I	2		TR1001	Turkish I	2		TR1001 / TR1001	Turkish I / Turkish I	2 / 2					
				IE1702	Academic English for Industrial Engineering I	3		EE1011 / IE1702	Academic English for Electrical And Electronics Engineering I / Academic English for Industrial Engineering I	3 / 3					
2. YARIYIL				2. YARIYIL				2. YARIYIL				2. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE2221	INTRODUCTION TO ELECTRIC CIRCUITS	6		IE2002	Introduction to Programming	5		EE1021 / IE2002	Programming for Engineers/ Introduction to Programming	6 / 5					
EE2202	ELECTRIC CIRCUITS LABORATORY	3		IE2401	Introduction to Industrial Engineering	3						IE2401	Introduction to Industrial Engineering	3	
EE2011	ACADEMIC ENGLISH FOR ELECTRICAL AND ELECTRONICS ENGINEERING II	3		IE2602	General Chemistry	5		EE2021 / IE2602	Chemistry / General Chemistry	6 / 5					
MCB1002	CALCULUS II	7		MCB1002	Calculus II	7		MCB1002 / MCB1002	Calculus II / Calculus II	7 / 7					
MCB1005	DIFFERENTIAL EQUATIONS	6		PHY2001	Physics II	7		EE2221 / PHY2001	Introduction to Electric Circuits / Physics II	6 / 7					
EE2021	CHEMISTRY	6		ATA2001	Principles of Atatürk and History of Revolution II	2		ATA2001 / ATA2001	Atatürk İktisat ve İnkılap Tarihi II / Principles of Atatürk and History of Revolution II	2 / 2					
ATA2001	PRINCIPLES OF ATATÜRK & HISTORY OF REFORMS II	2		TR2001	Turkish II	2		TR2001 / TR2001	Türkçe II / Turkish II	2 / 2					
TR2001	TURKISH II	2		IE2703	Academic English for Industrial Engineering II	3		EE2011 / IE2703	Academic English for Electrical And Electronics Engineering II / Academic English for Industrial Engineering II	3 / 3					
3. YARIYIL				3. YARIYIL				3. YARIYIL				3. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE3221	CIRCUIT ANALYSIS	6		IE3003	Object Oriented Programming	5						IE3003	Object Oriented Programming	5	
EE3222	LOGIC DESIGN	6		IE3101	Introduction to Probability	6						IE3101	Introduction to Probability	6	
EE3203	LOGIC CIRCUITS LABORATORY	3		IE3501	Economics	4						IE3501	Economics	4	
EE3301	INTRODUCTION TO ELECTROMAGNETICS	5		IE3502	Financial and Cost Accounting	4						IE3502	Financial and Cost Accounting	4	
EE3401	SIGNALS AND SYSTEMS	5		IE3603	Materials Science	4		EE6023 / IE3603	Materials Science / Materials Science	3 / 4					
MCB1008	NUMERICAL METHODS	6		MCB1004	Linear Algebra	6		MCB1004 / MCB1004	Linear Algebra / Linear Algebra	6 / 6					
					Elective (minimum 2 AKTS)	2			Seçimlik Alan Dışı Dersleri / Seçimlik Alan Dışı	2 / 2					
4. YARIYIL				4. YARIYIL				4. YARIYIL				4. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE4121	INTRODUCTION TO RANDOM SIGNALS	5		IE4004	Numerical Analysis for Industrial Engineers	5		MCB1008 / IE4004	Numerical Methods / Numerical Analysis for Industrial Engineers	6 / 5					
EE4201	ELECTRONIC CIRCUITS I	6		IE4102	Statistics for Engineers	6						IE4102	Statistics for Engineers	6	
EE4202	ELECTRONIC CIRCUITS I LABORATORY	3		IE4201	Operations Research I	7						IE4201	Operations Research I	7	
EE4301	ELECTROMAGNETIC FIELD THEORY	7		IE4503	Engineering Economics	6						IE4503	Engineering Economics	6	
EE4401	INTRODUCTION TO TELECOMMUNICATION	6			Departmental Elective (minimum 4 AKTS)	4									
EE4402	TELECOMMUNICATION LABORATORY	3			Elective (minimum 2 AKTS)	2			Seçimlik Alan Dışı Dersleri / Seçimlik Alan Dışı	2 / 2					
5. YARIYIL				5. YARIYIL				5. YARIYIL				5. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE5201	ELECTRONIC CIRCUITS II	6		IE5202	Operations Research II	7						IE5202	Operations Research II	7	
EE5202	ELECTRONIC CIRCUITS II LABORATORY	3		IE5403	Facilities Design and Planning	3						IE5403	Facilities Design and Planning	3	
EE5203	MICROPROCESSORS	5		IE5802	Industrial Training I	3						IE5802	Industrial Training I	3	
EE5301	ELECTROMAGNETIC WAVE THEORY	6			Departmental Elective (minimum 13 AKTS)	13						IE5802	Departmental Elective (minimum 8 AKTS)	8	
EE5401	DIGITAL SIGNAL PROCESSING	5													
EE5021	INDUSTRY TRAINING I	3													
	SEÇİMLİK ALAN DIŞI DERSLERİ (SAD)	2													
6. YARIYIL				6. YARIYIL				6. YARIYIL				6. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE6021	TECHNICAL WRITING AND PRESENTATION	4		IE6103	Design of Experiments	6						IE6103	Design of Experiments	6	
EE6022	ENGINEERING ETHICS & LAW	3		IE6404	Production Planning and Control	7						IE6404	Production Planning and Control	7	
EE6023	MATERIALS SCIENCE	3			Departmental Elective (minimum 17 AKTS)	17						IE6404	Departmental Elective (minimum 17 AKTS)	17	
	SEÇİMLİK ALAN DIŞI DERSLERİ (SAD)	2													
	SEÇİMLİK ALAN DERSLERİ (SA)	18													
7. YARIYIL				7. YARIYIL				7. YARIYIL				7. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE7021	INDUSTRY TRAINING II	3		IE7203	Simulation Modelling	6						IE7203	Simulation Modelling	6	
EE7022	ENTREPRENEURSHIP FOR ENGINEERS	3		IE7405	Supply Chain Management	5						IE7405	Supply Chain Management	5	
	SEÇİMLİK ALAN DERSLERİ (SA)	24		IE7803	Industrial Training II	3						IE7803	Industrial Training II	3	
					Departmental Elective (minimum 16 AKTS)	16						IE7803	Departmental Elective (minimum 16 AKTS)	16	
8. YARIYIL				8. YARIYIL				8. YARIYIL				8. YARIYIL			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE8000	GRADUATION PROJECT	12		IE8406	Quality Engineering	5						IE8406	Quality Engineering	5	
	SEÇİMLİK ALAN DERSLERİ (SA)	18		IE8900	Graduation Project	8						IE8900	Graduation Project	8	
					Departmental Elective (minimum 17 AKTS)	17						IE8900	Departmental Elective (minimum 17 AKTS)	17	
TOPLAM				TOPLAM				TOPLAM				TOPLAM			
			249				249				75 / 73				167
SEÇİMLİK ALAN DERSLERİ (SA)				SEÇİMLİK ALAN DERSLERİ (SA)				EŞDEĞER DERSLER (SA) SEÇİMLİK DERSLER				ÇİFT ANADALINDA ALACAĞI (SA) / (SAD) SEÇİMLİK DERSLER			
DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS		DERS KODU	DERS ADI	AKTS	
EE0801	SPECIAL TOPICS IN ELECTRONIC ENGINEERING I	6		IE0005	Introduction to Fuzzy Modelling	5						IE0005	Introduction to Fuzzy Modelling	5	
EE0802	SPECIAL TOPICS IN ELECTRONIC ENGINEERING II	6		IE0006	Data Structures and Programming	5						IE0006	Data Structures and Programming	5	
EE0803	MANAGEMENT FOR ENGINEERS	6		IE0104	Introduction to Data Mining	6						IE0104	Introduction to Data Mining	6	
EE0804	ACADEMIC WRITING	6		IE0204	Case Studies in Mathematical Modelling	6						IE0204	Case Studies in Mathematical Modelling	6	
EE0805	ELECTRICAL MEASUREMENT	6		IE0205	Introduction to Decision Analysis	6						IE0205	Introduction to Decision Analysis	6	
EE0806	CIRCUIT SYNTHESIS	6		IE0301	Systems Analysis	5						IE0301	Systems Analysis	5	
EE0842	POWER ELECTRONICS	6		IE0302	Enterprise Resource Planning	5						IE0302	Enterprise Resource Planning	5	
EE0808	BIOMEDICAL INSTRUMENTATION	6		IE0303	Management Information Systems	5						IE0303	Management Information Systems	5	
EE0809	INDUSTRIAL ELECTRONICS	6		IE0402	Ergonomics	6						IE0402	Ergonomics	6	
EE0810	MICROWAVE ENGINEERING	6		IE0407	Work Study	6						IE0407	Work Study	6	
EE0811	INTRODUCTION TO ANTENNAS	6		IE0408	Scheduling Applications in Manufacturing and Services	6						IE0408	Scheduling Applications in Manufacturing and Services	6	
EE0812	COMMUNICATION ELECTRONICS	6		IE0409	Project Management	6						IE0409	Project Management	6	
EE0813	SIGNAL PROCESSING APPLICATIONS	6		IE0410	Quality Planning and Analysis	5						IE0410	Quality Planning and Analysis	5	
EE0814	INTRODUCTION TO IMAGE PROCESSING	6		IE0504	Strategic Management	5						IE0504	Strategic Management	5	
EE0815	ADAPTIVE FILTERS	6		IE0505	Marketing Management	5						IE0505	Marketing Management	5	
EE0816	DIGITAL COMMUNICATION	6		IE0506	Introduction to Business Management	4						IE0506	Introduction to Business Management	4	
EE0817	DIGITAL COMMUNICATION LAB.	6		IE0507	Organizational Behaviour and Human Resources	4						IE0507	Organizational Behaviour and Human Resources	4	
EE0818	WIRELESS AND MOBILE NETWORKS	6		IE0508	Labor Law	4						IE0508	Labor Law	4	
EE0819	WIDEBAND WIRELESS CELLULAR NETWORKS	6		IE0604	Computer Integrated Manufacturing Systems	5						IE0604	Computer Integrated Manufacturing Systems	5	
EE0820	FIBEROPTIC COMMUNICATION	6		IE0605	Advanced Manufacturing Systems	6						IE0605	Advanced Manufacturing Systems	6	
EE0821	ELECTRICAL MACHINES	6		IE0606	Manufacturing Techniques	5						IE0606	Manufacturing Techniques	5	
EE0822	ELECTRICAL DISTRIBUTION SYSTEMS	6		IE0607	Industrial Applications of Nanotechnology	6						IE0607	Industrial Applications of Nanotechnology	6	
EE0823	HIGH VOLTAGE TECHNIQUE	6		IE0608	Introduction to Renewable Energy	6						IE0608	Introduction to Renewable Energy	6	
EE0824	INTRODUCTION TO NANOELECTRONICS	6		IE0609	Introduction to Energy Management	5						IE0609	Introduction to Energy Management	5	
EE0825	SEMICONDUCTOR TECHNOLOGY	6		IE0701	Academic Writing and Presentation Skills	5		EE6021 / IE0701	Technical Writing and Presentation / Academic Writing and Presentation Skills	4 / 5					
EE0826	CONTROL SYSTEMS	6		IE0901	Special Topics in Industrial Engineering	2						IE0901	Special Topics in Industrial Engineering	2	
EE0827	EMBEDDED SYSTEM APPLICATIONS	6		IE0411	Logistics Systems	6						IE0411	Logistics Systems	6	
EE0828	CMOS VLSI DESIGN-1	6		IE0902	Case Studies in Industrial Engineering	3						IE0902	Case Studies in Industrial Engineering	3	
EE0829	CMOS VLSI DESIGN-2	6		IE0007	Advanced Excel Applications	5						IE0007	Advanced Excel Applications	5	